

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 F02M31/20 F28D7/02

F28F13/06 F28F1/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 F28F F28D F02M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 4 938 036 A (FOLEY JOHN J ET AL) 3 July 1990 (1990-07-03) column 2, line 31 – column 4, line 63; figures	1-5,8, 11,14 6,7,9, 10,12,15
X	US 5 251 603 A (KIMURA HIDEKI ET AL) 12 October 1993 (1993-10-12)  column 2, line 45 – column 3, line 25; figure 2 column 3, line 65 – column 4, line 28; figures 5,6 column 4, line 42 – line 62; figures 7,8	1,2,4,5, 8,11,13, 14
		-/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex.

\* Special categories of cited documents :

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Date of the actual completion of the international search

29 November 2004

Date of mailing of the international search report

03/12/2004

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3016

Authorized officer

VON ARX, H

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	DE 37 02 963 A (SUEDDEUTSCHE KUEHLER BEHR) 11 August 1988 (1988-08-11)	6,12,15
A	column 3, line 45 – column 4, line 29; figures	1,2,4,5, 8,10,12, 14
Y	FR 69 567 E (SOCIÉTÉ ANONYME DES USINES CHAUSSON) 10 November 1958 (1958-11-10)	7
A	the whole document	1,2,4,5, 8,14,15
Y	WO 98/51923 A (BENNETT TECHNOLOGIES L L C) 19 November 1998 (1998-11-19)	9,10
A	the whole document	1-3,14
A	DE 34 43 085 A (KUEHNERR GMBH & CIE) 13 June 1985 (1985-06-13)	1,2,4-6, 8,10,11, 13,14
	the whole document	-----

## Information on patent family members

International Application No  
PCT/EP2004/052259

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 4938036	A	03-07-1990	NONE			
US 5251603	A	12-10-1993	JP	4132446 U		08-12-1992
DE 3702963	A	11-08-1988	DE	3702963 A1		11-08-1988
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WO 9851923	A	19-11-1998	AU CA WO US	7377798 A 2289859 A1 9851923 A1 6216675 B1		08-12-1998 19-11-1998 19-11-1998 17-04-2001
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